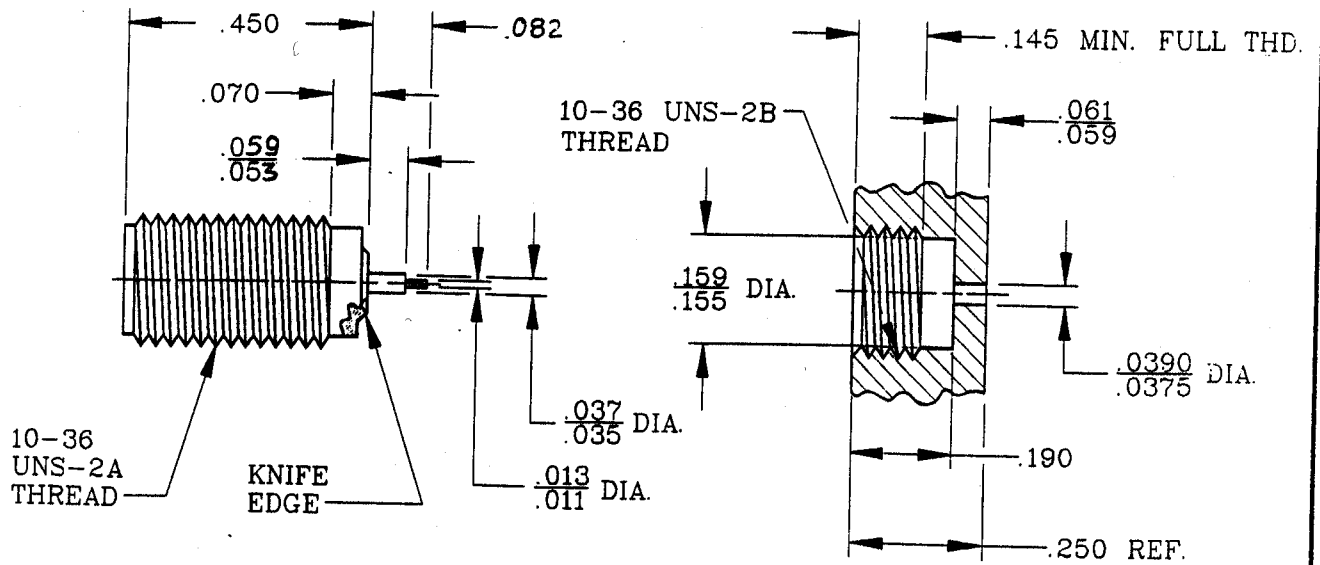


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SSMA JACK per DYNAWAVE DRAWING MD-93.

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 38 GHz
VSWR (MAX) *	_____	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX) *	_____	.05 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX VRMS)	_____	250
RF LEAKAGE (MIN. dB DOWN)	_____	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX VRMS)	_____	750
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	5,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	15.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			GEORGETOWN MA. 01833
				DECIMALS	FRACTIONAL	ANGULAR	
—	979	M.B.	6/93	.X ± .030 .XX ± .010 .XXX ± .005	±1/64	X° ± 1° 0' X° X' ± 15'	TITLE SSMA, JACK HERMETICALLY SEALED SPARK PLUG
				DRAWN <i>M.B.</i> DATE <i>6/93</i>			
				APPROVED <i>[Signature]</i> DATE <i>6/93</i>			
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9330-0431-6461	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT
 MAX AXIAL FORCE _____ 4.5 LBS.
 MAX RADIAL TORQUE _____ 1.5 IN. OZ.
 CENTER CONTACT AXIAL FORCES
 ● INSERTION (MAX OUNCES) _____ 40.0
 ● WITHDRAWAL (MIN. OUNCES) _____ 1.0
 CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX IN. LBS.) _____ 2.0
 CONNECTOR DURABILITY (MIN. CYCLES) _____ 500
 RECOMMENDED MATING TORQUE
 ● INTERFACE _____ 6 - 8 IN. LBS.
 ● PACKAGE _____ 17 - 20 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65° c TO + 200° c)
 SHOCK _____ MIL-STD-202, METHOD 213, COND. I (100 G's)
 VIBRATION _____ MIL-STD-202, METHOD 204, COND. D (20 G's)
 MOISTURE RESISTANCE _____ MIL-STD-202, METHOD 108, LESS STEP 7b
 CORROSION _____ MIL-STD-202, METHOD 101, COND. B (48 HOURS)
 BAROMETRIC PRESSURE (ALTITUDE) _____ MIL-STD-202, METHOD 105, COND. C (70,000 FT.) (190 VRMS)
 HERMETICITY _____ 1 x 10⁻⁸ cc/SEC.

5. MATERIAL

BODY _____ STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A
 CONTACT _____ BERYLLIUM COPPER PER QQ-C-530 ALLOY 173, COND HT
 INSULATOR _____ TEFLON PER MIL-P-19468, AND L-P-403, TYPE I
 GLASS PIN _____ KOVAR PER MIL-I-23011
 GLASS _____ CORNING 7052

6. FINISH

BODY and GLASS PIN _____ GOLD per MIL-G-45204, TYPE I, GRADE C, CLASS Q OVER NICKEL PLATE per QQ-N-290 (.0001 MIN. THICKNESS).
 CONTACT _____ GOLD per MIL-G-45204, TYPE II, GRADE C, CLASS 2 (.000100 Minimum Thickness) OVER NICKEL per QQ-N-290, CLASS 1 (.000100 Minimum Thickness) OVER COPPER per MIL-C-14550 (.000010 Minimum Thickness)
 INSULATOR AND GLASS _____ N/A



 INCORPORATED

SHEET 2 OF 2

DWG.
NO.

9330-0431-6461

REV.

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